

Vibration Monitoring Data-Monthly Summary

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Month and Year:	May-20					
Project:	Central Station Main Works					
EPL Licence Number:	21148					
EPL Weblink:	https://centralstationmetro.com/documents/					
Specific EPL Monitoring Condition:	M7.2- Vibration Monitoring					
Monitoring Location:	Number of Monitoring Events during the Month	Attended/Continuous Monitoring	Event Based Monitoring? (Y/N)	Measured Parameter: Peak particle Velocity (PPV) (mm/s)	Predicted Parameter: Peak Particle Velocity (PPV) (mm/s)	Comment
TCAC	1	Continuous	Y	All measures <2mm/s	<7.5mm/s	Low vibration works throughout the month. 1 measure of 14mm/s disregarded as it appears to be an isolated bump.
Dental Hospital Chalmers St	1	Continuous between 21-27 May 2020	Y	All measures <2mm/s	<7.5mm/s	Breaking north west corner of Eastern Entrance using 8t exc with hammer attachment. Some ground borne noise observed.
30 Chalmers St	1	Continuous	Y	<25mm/s	<25mm/s	<p>Eastern Entrance</p> <p>During the month of May 2020, pile breakout, earth works, stabilised sand breakout was the dominant site activity that may be noticeable to the surrounding community on Chalmers St from time to time.</p> <p>During these works, vibration levels would increase above 0.56mm/s, however for less than 6.5 hours per day on any given day as required by the MCoA. Agreed respite periods observed.</p> <p>The highest recorded measure associated with CSM works was 12.54mm/s.</p> <p>1 measured occurrences of vibration levels above 25mm/s screening criteria. This was due to pile detailing on a shared slab with the transducer.</p>
Definitions						
<p>Attended: Operator attended measure at either the façade of sensitive receiver, internal dwelling of a sensitive receiver or at a location of interest, typically in anticipation of an event.</p> <p>Continuous: Real time vibration data recording the peak within a 1 min intervals, 24/7.</p> <p>Event: The peak particle velocity (PPV) measured in mm/s of any measuring interval either during attended monitoring or a period of interest reviewed from the continuous data. The period is typically selected to monitor works as the works occur, or to validate predictions of planned works, or in response to a complaint, or due to an unexplained elevated PPV in the continuous data noise trace.</p>						